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		Application Number		09/739,589
TRANSMITTA	Filing Date		12/15/00	
FORM (to be used for all correspondence after initial filing)		First Named Inventor		Steven Teig
		Group Art Unit		2825
		Examiner Name		A.M. Thompson
Total Number of Pages in This Submissi	ion	Attorney Docket Number		SPLX.P0014
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Firm <i>Or</i> Individual name Mani	Adeli Reg. Vo. 39,585 of Stattler Joh	ansen & Ade	eli LLP
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Mani Adeli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Steven Teig

Serial No.:

09/739,589

Filing Date:

12/15/00

For:

METHOD AND APPARATUS FOR PRE-COMPUTING AND USING MULTIPLE PLACEMENT COST ATTRIBUTES TO QUANTIFY THE QUALITY OF A PLACEMENT CONFIGURATION WITHIN A PARTITIONED REGION

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

11/19/2003 HGUTEMA1 00000034 09937589 01 FC:1806 180.00 GP

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit with this Information Disclosure Statement the attached Form PTO-1449, and copies of the documents listed in the 1449 form for consideration by the Examiner. The Examiner is requested to make these documents of record. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to

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on the merits but before the Final Office Action. Accordingly, a fee is required. The requisite fee

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1128 referencing SPLX.P0014. However, the Assistant Commissioner is not authorized to

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Dated: November 13, 2003

Respectfully submitted,

Registration No. 39,585

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Serial No. 09/739,589 Docket No. SPLX.P0014 NOV-lease types sign (+) inside this box → +

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Sheet	1	of	7	Attorney Docket Number	SPLX.P0014

				U.S.	PATENT DOCUMENTS	
Examiner* Initials	Cite No.1		d Code ² known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0025 205	A1	02-06-2003	Shively	ž.
	4.	2003/0005 399	A1	01-02-2003	Igarashi et al.	TEC
<u> </u>	5.	4,593,363		06-03-1986	Burstein et al.	RECHNULO
	6.	4,855,929		08-08-1989	Nakajima	WO RE
	7.	5,267,176		11-30-1993	Antreich et al.	¥ ~ C
	8.	5,375,069		12-20-1994	Satoh et al.	A. CE
	9.	5,587,923		12-24-1996	Wang	IVED
	10.	5,618,744		04-08-1997	Suzuki et al.	i n
	11.	5,633,479		05-27-1997	Hirano	300
-	12.	5,637,920		06-10-1997	Loo	-
	13.	5,640,327		06-17-1997	Ting	
	14.	5,663,891		09-02-1997	Bamji et al.	
	15.	5,757,089		05-26-1998	Ishizuka	
	16.	5,784,289		07-28-1998	Wang	
	17.	5,798,936		08-25-1998	Cheng	
	18.	5,838,583		11-1998	Varadarajan et al.	
	19.	5,889,677		03-30-1999	Yasuda et al.	
	20.	5,980,093		11-09-1999	Jones et al.	

Examiner	Date	
Signature	Considered	

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Filing Date 12/15/00 **First Named Inventor** Steven Teig

Group Art Unit 2825

Application Number

Examiner Name A.M.Thompson

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Sheet	2	of	7	Attorney Docket Number	SPLX.P0014
					

			U.S.	PATENT DOCUMENTS	
21	. 6,070,108		05-30-2000	Andreev et al.	
22	. 6,128,767		10-03-200	Chapman	
23	. 6,209,123	B1	03-27-2001	Maziasz et al.	
24	. 6,253,363	B1	06-26-2001	Gasanov et al.	
25	. 6,295,634	B1	09-25-2001	Matsumoto	
26	6,324,674	B2	11-27-2001	Andreev et al.	
27	. 6,324,675	B1	11-27-2001	Dutta et al.	
28	. 6,327,693	B1	12-04-2001	Cheng et al.	
29	6,327,694	B1	12-04-2001	Kanazawa	
30	. 6,330,707		12-11-2001	Shinomiya et al.	
31	. 6,378,121	B1	04-23-2002	Hiraga	*
32	6,407,434	B1	06-18-2002	Rostoker et al.	TE
33	6,412,102	B1	06-25-2002	Andreev et al.	EH3
34	6,415,422	B1	07-02-2002	Mehrotra et al.	
35	6,442,743	B1	08-27-2002	Sarrafzadeh et al.	NDV REC
36	. 6,448,591	B1	09-10-2002	Juengling	25 E
37	. 6,473,891	B1	10-29-2002	Shively	VED 2003
38	6,480,991	B1	11-12-2002	Cho et al.	
39	6,490,713	B2	12-03-2002	Matsumoto £	2800
40	. 6,519,751	B2	02-11-2003	Sriram et al.	Ö
41	. 6,543,043	B1	04-01-2003	Wang et al.	
42	6,546,540	B1	04-08-2003	Igarashi et al.	
43	6,557,145	B2	04-29-2003	Boyle et al.	

Examiner	Date	
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^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENT DOCUMENTS								
	44.	6,567,967	B2	05-20-2003	Greidinger et al.			

		•		F	OREIGN PATENT DOCUMEN	TS		
Examiner* Initials	Cite No.1	Fo Office ³		ment Kind Cod (if known	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	45.	JP	411296560	Α	Matsumoto et al.	10-29-1999	with English translation of Abstract;	
	46.	JР	2000-82743	A	lgarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	√
	47.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	√
	48.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	1
	49.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	1

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Application Number 09/739,589 Substitute for form 1449A/PTO Filing Date 12/15/00 INFORMATION DISCLOSURE **First Named Inventor** Steven Teig STATEMENT BY APPLICANT Group Art Unit 2825 (use as many sheets as necessary) **Examiner Name** A.M.Thompson Sheet 4 7 Attorney Docket Number SPLX.P0014 of

FOREIGN PATENT DOCUMENTS								
50.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	1	
51.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	1	

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		FOREIGN PATENT DOCUMENTS		
		NON PATENT LITERATURE DOCUMENTS		
Examiner* Initials				
	52.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.		
	53.	Brady, L. et al., Channel Routing on a 60° Grid, extended abstract, pp. 956-931.		
	54.	Brambilla, A. et al., Statistical Method for the Analysis of Interconnects Delay in Submicrometer Layouts, IEEE, 8/2001, pp. 957-966.		
	55.	Carothers, K., A Method of Measuring Nets Routability for MCM's General Area Routing Problems, 1999, pp. 186-192.		
	56.	Chen, H. et al., Physical Planning of On-Chip Interconnect Architectures, 2002, IEEE, International Conference, pp. 30-35.		
	57.	Cheng, K. et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures, pp 47-52, 2000.		
	58.	Cheng, K., Steiner Problem in Octilinear Routing Model, a Thesis Submitted for the Degree of Master of Science, National University Singapore, 1995, pp. 1-122.		
	59.	Chip Model with Wiring Cost Map, August 1983, IBM Technical Disclosure Bulletin, vol. 26, iss. 3A, pp. 929-933.		
	60.	Cong, J. et al., Efficient Heuristics for the Minimum Shortest Path Steiner Arborescence Problem with Applications to VLSI Physical Design, Cadence Design Systems and UCLA Computer Science Department, pp.88-95.		
	61.	Cong, J. et al., Performance-Driven Multi-Layer General Routing for PCB/MCM Designs, UCLA Computer Science Department, 1998, pp. 356-361.		
	62.	Enbody, R. et al., Near-Optimal <i>n</i> -Layer Channel Routing, 23 rd Design Automation Conference, 1986, pp. 708-714.		
	63.	Fang, S. et al., Constrained Via Minimization with Practical Considerations for Multi-Layer VLSI/PCB Routing Problems, 28 th ACM/IEEE Design Automation Conference, 1991, pp. 60-65.		
	64.	Hom, I. et al., Estimation of the Number of Routing Layers and Total Wirelength in a PCB Through Wiring Distribution Analysis, 1996, pp. 1-6.		

Examiner	Date	
Signature	Considered	

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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	Sheet	6	of	7	Attorney Docket Number	SPLX.P0014	

	FOREIGN PATENT DOCUMENTS	
65.	Hong, X. et al., Performance-Driven Steiner Tree Algorithms for Global Routing, 30 th ACM/IEEE Design Automation Conference, 1993, pp. 177-181.	
66.	Hu, J et al.: "A Timing-Constrained algorithm for Simultaneous Global Routing of Multiple Nets" IEEE/ACM International Conference on Computer Aided Design. ICCAD – 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA USA, 5-9 Nov. 2000. Pages 99-103.	
67.	Kastner R et al.: "Predictable Routing" IEEE/ACM International Conference on Computer Aided Design. ICCAD – 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000. Pages 110-113.	
68.	Khoo, K. et al., An Efficient Multilayer MCM Router Based on Four-Via Routing, 30 th ACM/IEEE Design Automation Conference, 1993, pp. 590-595.	
69.	Lillis, J. et al., Table-Lookup Methods for Improved Performance-Driven Routing, 1998, pp. 368-373.	
70.	Lipski, W. et al., A Unified Approach to Layout Wirability, Mathimatical Systems Theory, 1987, pp. 189-203.	
71.	Lodi, E. et al., A Preliminary Study of a Diagonal Channel-Routing Model, Algorithmica, 1989, pp.585-597.	
72.	Lodi, E. et al., Lecture Notes in Computer Science, A 4d Channel Router for a Two Layer Diagonal Model, pp. 464-476, July 1988.	
73.	Naclerio, N. et al., Via Minimization for Gridless Layouts, 24 th ACM/IEEE Design Automation Conference, 1987, pp. 159-165.	
74.	Nam, G. et al, Satisfiability-Based Layout Revisited: Detailed Routing of Complex FPGAs Via Search-Based Boolean SAT, 1999, pp. 167-175	
75.	Oh, J. et al., Constructing Lower and Upper Bounded Delay Routing Trees Using Linear Programming, 33 rd Design Automation Conference, 1996.	
76.	Partitioning Logic on to Graph Structure, IBM Technical Disclosure Bulletin, February 1990, vol. 32, iss. 9A, pp. 469-475.	
77.	Phillips, N., Channel Routing by Constraint Logic, Department of Computer Science Southern Illinois University, ACM, 1992.	

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^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Application Number 09/739,589 Substitute for form 1449A/PTO TRADEN **Filing Date** 12/15/00 INFORMATION DISCLOSURE **First Named Inventor** Steven Teig STATEMENT BY APPLICANT Group Art Unit 2825 (use as many sheets as necessary) **Examiner Name** A.M. Thompson 7 Attorney Docket Number SPLX.P0014 Sheet 7 of

	FOREIGN PATENT DOCUMENTS	
78.	Takashima, Y. et al, Routability of FPGAs with Extremal Switch-Block Structures, IEICE Trans. Fundamentals, vol. E81-A, No. 5, May 1998, pp. 850-856.	
79.	Thakur, S. et al., Algorithms for a Switch Module Routing Problem, 1994, pp. 265-270.	
80.	Theune, D., et al., HERO: Hierarchical EMC-constrained routing, 11/1992, IEEE pp 468-472	
81.	Tseng, H., Timing and Crosstalk Driven Area Routing, pp. 378-381.	
82.	Wang, D., Novel Routing Schemes for IC Layout, Part I: Two-Layer Channel Routing, 28 th ACM/IEEE Automation Conference, 1991, pp. 49-53.	
83.	Wang, M. et al., Modeling and Minimization of Routing Congestion, Jan. 2000, IEEE proceedings of ASP-DAC, Asia and South Pacific, pp. 185-190.	
84.	Wood, G. et al., FPGA Routing and Routability Estimation Via Boolean Satisfiability, Department of Electrical and Computer Engineering Carnegie Mellon University, Pittsburgh, PA, pp. 119-125.	
85.	Zhang, C.X. et al., Floorplan Design Using a Hierarchical Neutral Learning Algorithm, IEEE, 6/1991. pp. 2060-2063.	
86.	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996.	
87.	Zhou, H. et al., Global Routing with Crosstalk Constraints, Department of Computer Sciences, University of Texas, 1998, pp. 374-377.	
88.	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.	

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